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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/527,115	03/08/2005	Hans Lobl	DE 020206	9528	
24737 75	590 10/04/2006		EXAMINER		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			CRANE, S	CRANE, SARA W	
			ART UNIT	PAPER NUMBER	
	•		2811		

DATE MAILED: 10/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)		
	10/527,115	LOBL, HANS		
Office Action Summary	Examiner	Art Unit		
	Sara W. Crane	2811		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (136(a)). In no event, however, may a reply be twill apply and will expire SIX (6) MONTHS from (6), cause the application to become ABANDON	DN. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☑ This 3) ☐ Since this application is in condition for allowa closed in accordance with the practice under E	s action is non-final. nce except for formal matters, p			
Disposition of Claims				
4) ⊠ Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-6</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or				
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the drawing(s) be held in abeyance. So tion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7 Feb 2006 8 Mar 2005 	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 2, a "basic substrate" is not clear. Is a "basic substrate" any different from "a substrate"? In claim 4, line 4, the designation "alternatively" is not clear. Does this mean that the members of list that follows are alternatives to each other? (If so, why say "and/or" in line 6?)

In claim 6, the elements are recited as "the top electrode," "the piezoelectric layer," etc. This is confusing because there is no antecedent for any of the elements. (What top electrode? What piezoelectric layer?)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cushman et al. in view of Takahashi et al. and Ballato.

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Cushman et al. teaches in for example figure 1 a bulk acoustic wave resonator having a substrate 22, with electrodes 26 and 28 on piezoelectric layer 24. Column 1, lines 65-67, teaches the need to suppress lateral propagating acoustical wave modes. Takahashi et al. teaches at column 5, lines 45-58, that irregular indentations on the lower surface of a layer can attenuate undesirable frequencies. Ballato teaches at column 5, lines 55-64, that a layer of absorbing material on the top or bottom surface can absorb unwanted modes. It would have been obvious to include irregular indentations, or a layer of absorbing material in the Cushman device, to absorb attenuate undesirable frequencies and to absorb unwanted modes, as taught in the secondary references. With respect to claim 2, it would have been obvious to etch irregularities as taught by Takahashi, in order to obtain an irregular surface. With respect to claim 3, polyimide absorber is noted at Ballato column 5, lines 60-64.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane Primary Examiner Art Unit 2811